

2-6 continued

Absolute Value Graphs

$$y = a|x - h| + k$$

k up/down
 h left/right

Calculator

$$y = |x| - 3$$

$$k = -3$$

$$y = |x| + 2$$

$$y = |x - 3|$$

$$h = 3$$

Oct 10-10:42 AM

a - "slope"
 wide/narrow
 $-a \rightarrow$ upside down

$$y = a|x - h| + k$$

 $V(h, k)$

ex $y = |x + 6| - 3$
 $V(-6, -3)$

Oct 8-12:08 PM

Summary

$$y = a|x - h| + k$$

a -----controls "slope" (wide or narrow)
 negative (upside down)

Vertex--point at bottom or top of graph

 $V(h, k)$ h shifts left and right k shifts up or down

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$$y = |2x - 3|$$

Illegal factor move
 to determine vertex

$$y = 2|x - \frac{3}{2}|$$

$$V(\frac{3}{2}, 0)$$

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